

**INTERPRETATION IC 15-2007-5 OF  
ANSI/ASHRAE STANDARD 15-2007  
SAFETY STANDARD FOR REFRIGERATION SYSTEMS**

Date Approved: January 30, 2011

**Request from:** Norman L. Nelson, PE ([norman.nelson@hilton.com](mailto:norman.nelson@hilton.com)), Hilton Worldwide, 8311 Brier Creek Pkwy Ste 105-505, Raleigh, NC 27617.

**Reference:** This request for interpretation refers to the requirements presented in ANSI/ASHRAE Standard 15-2007, Section 7.3, regarding volume calculations and permanently installed furniture and fixtures.

**Background:** Hotel/motel guest rooms have considerable amounts of permanent or portable fixtures, casework, furniture, wardrobes, and fixed bed(s). These all take up considerable volume within the guest rooms reducing the effective volume for dispersment of refrigerants. In R-410A variable refrigerant flow systems particularly, there is the potential for significant quantities of refrigerant leakage into a single guest room. R-410A is heavier than air so it is understood that the air volumes on the lowest portions of the room would typically be those that are displaced.

**Interpretation:** It is Hilton Worldwide's interpretation that volume calculations should deduct the permanent or portable fixtures, casework, and other appurtenances that do not allow dispersion of refrigerant be deducted from the allowable volume.

**Question:** Is this Interpretation correct?

**Answer:** No.

**Comment:** None.